TELEDYNE
GAS AND FLAME DETECTION
Everywhere**you**look™

Fixed Gas & Flame Detection

Product Overview - EMEA Region

Contents

Fixed Gas & Flame Detection

The integration of Detcon, Oldham Simtronics and GMI into the Teledyne Group makes it one of the leading manufacturers of gas and flame detection equipment in the world. Saving lives every day, the Teledyne Gas & Flame Detection team has over 100 years of experience in designing and manufacturing innovative systems.

Teledyne's recognized expertise is to support and deploy specific solutions for each of your projects. You can rely on our complete range, our state-of-the-art industrial solutions, the quality of our products and services in the most critical situations. When it comes to added value, efficiency and effectiveness, the Teledyne Gas & Flame Detection team does it better than anyone.

Teledyne has a dedicated project department to carry out your specific projects or offer you turnkey solutions. With proven industrial know-how, a wide range of control units and detectors, technical services and support at your disposal, our commitment guarantees you protection for today and confidence in your system for the future.

Our products are marketed by our various subsidiaries or by our qualified international network. Our commitment to our customers does not end with the delivery of the products, but includes the provision of technical support and the support of our after-sales service for preventive or corrective maintenance. From customised design to unrivalled technical support, our gas and flame detection solutions are backed by our expertise and trusted state-of-the-art technology.

Teledyne's mission is to be the best supplier of fixed gas and flame detection systems anywhere in the world. We strive to provide the highest quality and best service service to all our customers.

Are you looking for the best solution for your application?
Visit our website to find your nearest branch:
www.teledynegasandflamedetection.com.
Our teams will answer your questions and take the time to define your needs.

Are you looking for more than a gas detector?
Our products are designed to suit your applications. From the simplest installation to multi-zone protection, you will always find a solution in our range of fixed systems. Our team studies all your gas and flame detection projects, from initial studies on plans or on site to the provision of equipment, its commissioning and associated maintenance.

Our expertise:
- Analysis of the existing situation / Project study / Expertise
- Design and production of cabinets and enclosures
- Management of turnkey projects
- After-sales service: Commissioning, maintenance contract
- Technical support with dedicated telephone line

Our wide range of applications:
- New energy value chain
- Energy transformation, Hydrogen
- Natural gas transport and storage
- Onshore & Offshore Production
- Refining & Petrochemicals
- Food & Beverage Industry
- Water Treatment
- Automotive sector
- Steel production
- Pharmaceutical industry
- Nuclear and thermal power plants

Reliable and versatile products
We measure the impact of downtime costs resulting from equipment equipment failures. As an ISO 9001 certified company, we can assure you of the reliability of our products through the initial design of the equipment, the careful selection of materials and components and our manufacturing processes. manufacturing processes, we can guarantee the reliability of our products. Our detectors are designed to be suitable for almost any application.

SERVICES

Commissioning:
Our technicians carry out commissioning with all the necessary skills and in accordance with your procedures and industry certifications.

We also provide training in the use, maintenance, and calibration of our products. We allow you to focus solely on your activity and leave the maintenance of your gas detection system to our specialists.

Planning/Application Engineering:
Our engineering teams work closely with our customers to optimise the performance and cost of the installation. The project service includes system design, construction, installation and commissioning. Each system is delivered ready to install with its documentation.

Repairs:
Our own team of qualified technicians provide you with a fast, high-quality service using original parts. Our repairs are carried out in line with your requirements and we offer software upgrades at no extra cost.

Equipment rental:
Our customers have the option of renting equipment under contracts of variable lengths. Whether you need one unit or one hundred, for a period of one week or several months, we are committed to ensuring that you receive the equipment in the shortest possible time. Rental customers will receive tested, calibrated, and fully functioning gas detection equipment, right out of the box.

Field service:
Our technicians come to you to perform all levels of on-site maintenance, particularly under maintenance contracts. This considerably reduces your equipment downtime and the need to stock replacement parts.

Training:
Our training courses are designed to help experienced professionals and newcomers alike. Trainees develop a better understanding of gas hazards and how to use their detectors effectively. We can provide customised training sessions at our approved centre or on site.

Technical and customer support:
Don't hesitate to get in touch if you have any questions rregarding an order, application or service questions, or if you have a technical query. Our teams will be delighted to help you!

Extended warranty program:
There are various options available. Please contact your local representative.

Fixed
Gas Detectors
(for light industry / commercial)

OLC 10/OLCT 10

Designed for the detection of flammable gases, exhaust gases and refrigerants

- Up to two OLC 10's TWIN's per channel
- Up to five OLCT 10's per channel
- Wheatstone bridge (OLC 10) or 4-20 mA output (OLCT 10)

The OLC 10 and OLCT 10 are designed to detect combustible or toxic gases for tertiary applications (boiler plants, battery charging rooms, car parks, hospitals). Two OLC 10's can be connected to one detection channel to monitor the same area, without an additional junction box or extra wiring. Similarly, up to five OLCT 10's can be connected to one channel for the detection of CO, NO or NO_2 in a car park application.

Gases Detected: Flammable (Hydrogen, Methane, Propane, Butane, LPG, CNG), Toxic (CO, NO, NO_2) refrigerants
Power supply: 15 - 30 VDC
Output signal: 4-20 mA, Wheaststone bridge
Technology: Catalytic, Electrochemical, or Semi-Conductor
Certifications: CE • ATEX 3G (for OLC10 versions)

OLCT 10N

Designed to detect oxygen, the most common combustible or toxic gases

OLCT 10N is a digital detector compatible with the MX 16, MX 32v2, MX 43 and MX256 controllers. It is possible to connect up to eight OLCT 10N's to one MX 32v2 and up to thirty two OLCT 10Ns to one MX 43. Calibration using a standard gas is semi-automatic. It can be done by just one person without opening or adjusting the housing.

Gases Detected: Methane, Propane, Butane, Hydrogen, LPG, O_2, CO, CO_2, H_2S, NH_3, NO, NO_2
Technology: Catalytic, Infrared, or Electrochemical
Certifications: CE • ATEX 3GD (depending on version) • IECEx

CTX 300

Designed to detect toxic gases or oxygen in general purpose areas

- 4-20 mA transmitter with optional backlit display
- 2-wire loop power supply option (electrochemical version)

The CTX 300 is designed to detect toxic gases or oxygen in safe areas in the industrial or tertiary sectors. The CTX 300 is equipped with sensors that are pre-calibrated at our factory, facilitating maintenance and more specifically sensor replacements.

Gases Detected: more than 30 toxic gases, O_2, CO_2, VOCs, refrigerant gases
Technology: Infrared, Electrochemical, or Semi-Conductor
Power Supply: 15-32 Vcc
Output Signal: 4-20 mA
Certifications: CE • CSA • EAC

Car Park System (CPS)

Designed to detect combustible gases and exhaust gases in car parks and tunnels

- Up to 256 detectors, 64 logic inputs and 256 relays per system
- Automatic ventilation control

The CPS (Car Park System) gas detection unit uses a fieldbus and can support up to 256 detectors and just as many relays connected in a network across 8 different lines. Up to 1,000 times faster than a pumped system, the CPS is safer and provides optimal management of the ventilation while considerably reducing energy consumption. It has an easy to use interface consisting of a large LCD screen displaying measurements in real time, 3 LED lights, and icons indicating the status of the system (Operation, Forced Operation, Fault, Alarm, Low Speed, High Speed, etc.).

Gases detected: Methane, Hydrogen, LPG, VNG, CO, NO, NO_2
Technology: Catalytic, or Electrochemical
Power supply: 85-260 Vac
Outputs: Relays, RS485 Modbus RTU
Certifications: CE • VDI 2053

Fixed
Gas Detectors
(for industry)

OLC 100/OLCT 100

Gas detector for installation in hazardous areas

- SIL2 certification (flammable gases, O_2)
- Stainless steel option available
- High temperature version up to 140°C

Intended for industrial applications, OLCT 100 gas detectors have an economical design and are reliable, durable, and easy to use. The range is available in Wheatstone Bridge version (OLC) or in 4-20 mA-output analog transmitter version (OLCT). The 100 series is available in explosion-proof and intrinsically safe versions. The OLC 100 and OLCT 100 are SIL2-certified according to standards IEC 61508 and EN 50402 (depending on the gases detected).

Gases detected: Combustible, toxic, O_2, CO_2, VOCs, refrigerant gases
Technology: Catalytic, Electrochemical, Infrared, Semi-Conductor
Power supply: 15.5-32 Vcc
Output signal: 4-20 mA, Wheatstone Bridge on OLC 100 model, MEMS
Certifications: CE • ATEX • IECEx • INMETRO • China Ex • India Ex • EAC • MED • SIL2

OLCT 20

Designed to detect gases in applications with limited space

- Stainless steel, corrosion-resistant housing
- Pre-calibrated sensors
- M25 or 3/4 NPT thread

Small in size, OLCT 20 detectors are used for applications requiring less space (ventilation ducts, laboratory glove boxes, fume cupboards, etc.)

Gases detected: Combustible, toxic, O_2
Technology: Catalytic, Electrochemical, Semi-Conductor
Power supply: 15-30 Vcc
Output signal: 4-20 mA
Certifications: CE • ATEX • China Ex

OLCT 60

Analog transmitter with display for detecting gases in areas classified as having an explosion risk

- Non-intrusive, one-man calibration
- Pre-calibrated sensors

The OLCT 60 is equipped with a local display and non-intrusive access to the maintenance menus. The sensor units are made of 316L stainless steel for increased resistance to corrosive agents, and they can be installed remotely up to 15 meters away from the display for detection in hard to access areas, while allowing direct readings. The OLCT 60 is a versatile detector. Designed for industry, it is suitable for most applications.

Gases detected: Combustible, toxic, O_2, CO_2, VOCs, Freons
Technology: Catalytic, Electrochemical, Infrared, Semi-Conductor
Power supply: 16-30 Vcc
Output signal: 4-20 mA
Certifications: CE • ATEX • China Ex

DG-7 Series

Analog transmitter with display for detecting gases in areas classified as having an explosion risk

- Non-intrusive, one-man calibration
- Pre-calibrated sensors
- HART communication protocol
- 3 optional relays

DG-7 gas detectors are designed for easy operation and maintenance, and use a broad range of sensors. The electrochemical sensors are certified as intrinsically safe and can be replaced without disconnecting the detector. Made entirely of stainless steel and equipped with a bright display that changes colour depending on the status (alarm, fault, normal, pre-heating), the DG-7 is an industrial detector designed for harsh environments.

Gases detected: Combustible, toxic, O_2
Technology: Catalytic, Electrochemical, Semi-Conductor (H_2S)
Power supply: 24V DC, (18 - 35V DC)
Outputs: 4-20 mA (0-22 optional), Relays, HART, LonWorks (for connection to the Syntel system)
Certifications: CE • ATEX • IECEx • SIL2

700 Series

Analog transmitter with display for detecting all gases in areas classified as having an explosion risk

- Specially designed for harsh environments and extreme conditions
- Water-resistant, corrosion-resistant, and vibration-resistant
- Non-intrusive, one-man calibration

The 700 Series has been designed for use in extreme environmental conditions. Its housing is made entirely of stainless steel and the electronics are encapsulated in resin to protect them from the external environment. The detection sensors are "smart". They are pre-calibrated at our factory and can be recognised by the detector for easy field replacement.

Gases detected: Combustible, toxic, O_2, CO_2, VOCs
Technology: Catalytic, Electrochemical, Infrared, Semi-Conductor (H2S), Photoionization (VOCs)
Power supply: 11.5-28 Vcc
Output: 4-20 mA and RS485 Modbus RTU by default - Relays, HART and Foundation Fieldbus optional
Certifications: CE • ATEX • cCSAus • INMETRO • ABS • FM • EAC • SIL2

iTrans 2

Analogue transmitter with display for gas detection with one or two measuring points

- Non-intrusive, one-man calibration
- RS485 output as standard
- Built-in relays and optional HART communication protocol

The iTrans2 is a single or dual-sensor transmitter for maximum flexibility and reduced installation costs. Its superior performance makes it suitable for any industrial application. Its features include: pre-calibrated sensors, local or remote sensors, non-intrusive calibration, optional stainless steel version, built-in relays, RS485 output for use in a network, high-visibility LED display, and more.

Gases detected: Combustible, toxic, O_2, CO_2
Technology: Catalytic, Electrochemical, Infrared
Power supply: 12-28 Vcc
Outputs: two 4-20 mA outputs, Relays, RS485 Modbus RTU or HART
Certifications: CE • ATEX • IECEx • NRTL/c et CSA • China Ex • INMETRO • EAC

Meridian

Universal gas detector with up to three detection points as an option

- Smart hot-swappable sensors
- Non-intrusive, one-man calibration

The Meridian is a transmitter that can support one, two or three sensors for maximum flexibility. Its superior performance makes it suitable for any industrial requirement. Its features include: pre-calibrated smart sensors that are hot-swappable in ATEX zones, local or remote sensors, non-intrusive calibration, optional stainless steel version, built-in relays, RS485 output for use in a network, high-visibility graphic display, and global certification.

Gases detected: combustible, toxic, O_2
Technology: Catalytic, Electrochemical
Power supply: 18-30 Vcc
Outputs: 4-20 mA, RS485 Modbus RTU, Relays, optional HART Protocol
Certifications: CE • ATEX • IECEx • cCSAus • INMETRO • China EX • EAC

GD10P

Infrared gas detector

- No re-calibration required on site
- 5 year warranty
- SIL2-certified
- HART Protocol as standard

The GD10P is the benchmark for infrared detectors. Equipped with two infra-red sources, using multi-beam technology, the GDP10 is so reliable that it requires no maintenance throughout its entire useful life. Ultra-fast response time (T90 < 2s), stainless steel construction, heated optics, 5-year warranty for the detector and 15-year warranty for the sources, global certification, and a HART communication protocol make the GD10P one of the most widely used detectors in the oil and gas industry.

Gases detected: Combustible, biogas, CO_2
Technology: Infrared
Power supply: 18-32 Vcc
Outputs: 4-20 mA, HART
Certifications: CE • ATEX • IECEx • CSA • UL • INMETRO • India Ex • ABS • MED • SIL2 (SIL3 compatible)

GD 10 PE

High-sensitivity duct mount infrared gas detector

- No re-calibration required on site
- Shortest response time on the market
- 0-20% LEL range

Derived from the GD10P, the GD10PE high-sensitivity infrared detector is the ideal solution for detecting combustible gases in ventilation ducts and gas turbines. For use where conventional detectors are not suitable given that their response times are too long and they are not sensitive enough to trigger alarms in the shortest possible time.

Gases detected: Combustible
Technology: Infrared
Power supply: 18-32 Vcc
Output: 4-20 mA, HART
Certifications: CE • ATEX • IECEx • CSA • EAC • SIL2

Quasar 900 SafeEye

Open Path Infrared to detect combustible gases

- Detection range up to 200 meters
- Heated optics
- 10-year warranty for source
- SIL2-certified by TÜV-Rheinland

The SafeEye detector comprises an infrared transmitter and a receiver separated by 4 to 200 meters, meaning it can replace up to 20 point detectors. With IP66/67 certification, heated optics and a stainless steel construction, the SafeEye was designed to operate in harsh environments, and can handle up to 90% signal attenuation caused by dust, fog, rain, snow, or vibrations. SIL2-certified, the SafeEye has a HART-compatible analog output, a RS485 output, and built-in relays, as well as a 3-year warranty.

Gases detected: Combustible
Technology: Infrared
Power supply: 18-32 Vcc
Outputs: 4-20 mA, HART, RS485 Modbus RTU
Certifications: CE • ATEX • IECEx • FM • SIL2

GD 1

Laser open path detector for the detection of H_2S

- No calibration required throughout its entire life
- No cross interference with other gases
- Maximum sensitivity

La barrière de détection GD1 met en oeuvre la technologie laser. The laser diodes that are used are specially designed for complete selectivity, maximum sensitivity, and total reliability. This laser technology makes GD1 immune to external disturbances such as sunlight, rain, or fog. The wavelength of the laser diode is monitored more than 500 times per second to ensure that the absorption ray perfectly matches the gas to be detected, and to eliminate any on-site calibration operations. Made entirely of stainless steel and equipped with heated optics, the GD1 is ideal for monitoring structures outdoors, along fences, at the boundaries of property, and more.

Gases detected: H_2S
Technology: Infrared (laser diode)
Power supply: 18-32 Vcc
Outputs: 4-20 mA, HART
Certifications: CE • ATEX • IECEx • SIL2

Flame
Detectors

DF-TV7 Series

Triple IR & UV/2IR flame detectors

- Excellent immunity to false alarms
- Wide field of vision (up to 120°)
- Continuous monitoring of optics

The DF-TV7-T includes three infrared detectors to detect hydrocarbon fires up to 80 meters away. It is designed for ddetecting hard to detect fires that generate a large amount of smoke.

The DF-TV7-V combines infrared and ultraviolet detectors for increased immunity to false alarms and a shorter response time. The DF-TV7-V detects hydrocarbon fires up to 45 meters away and is SIL2-certified.

Type of flame detected: Hydrocarbon fires
Technology: Triple IR (TV7-T) and Ultraviolet-Double IR combination (TV7-V)
Power supply: 18-28 Vcc
Outputs: 4-20 mA, Relays, HART (optional), LonWorks (for connection to the Syntel system)
Certifications: CE • ATEX • IECEx • India Ex • EN 54-10 • SIL2

Spyglass™ Serie

Flame Detector

- Very long detection range
- Less false alarms
- Detection of hydrogen fires
- Ultra fast detection mode for spark or NFPA33 applications
- On-board video option for real time viewing or post accident analysis

Spyglass™ SG50-F Series are designed to provide superior performance on a wide variety of fires in a rugged and durable stainless steel housing.
The built-in video option allows you to view and record fires without being at the scene. Their small size and affordability, combined with state-of-the-art features, make the Spyglass™ an attractive tool for anyone concerned about fires in their facilities.

Type of flame detected: all fire types (Alternate Energy Fuels, Munitions, Arcs/Sparks in windmills, Hot exhaust of engines such as helipads)
Technology: Triple IR (IR3) and Ultraviolet-Infrared combination (UV/IR)
Power supply: 18-32 VDC
Outputs: 0-20 mA, HART, Modbus, 3 relays
Certifications: CE • FMus • FMc • ATEX • IECEx • UKEX • EN 54-10 • SIL2

Alarm
Stations

Surveyor 4B

Single-channel controller without display

- Economical solution for small units (boiler plant, battery charging room)
- 2 programmable alarm thresholds

The Surveyor 4B is a single-channel controller designed to detect combustible gases in boiler plants, battery charging rooms, and more generally in small units that need one or two detectors. It has two different alarm thresholds and built-in relays. It can be easily mounted to a DIN rail.

Input: Wheatstone Bridge sensor
Outputs: 2 relays (1 common gas and fault, 1 gas)
Power supply: 11.5 to 14 Vcc or 207 to 242 Vca
Indicators: Built-in audible and visual alarms
Certifications: CE

MX 16

One channel control unit with display

- Analog or digital
- Low cost and easy to assemble
- 1 measurement line / 1 detector maximum
- Integrated relays

Specially designed for applications in MRI rooms, laboratories, storage, small boiler rooms, breweries, and battery charging rooms. The MX16 measurement unit prevents the risks of explosion linked to the presence of toxic, oxygen deficient, and explosive gases in the ambiant air. Small size, ease of installation and use are the main advantages for the facility. Used with the OLCT 10N O_2 and CO_2 digital sensor series or any other analog O_2, CO_2, CH_4, GPL and H_2 sensor, the MX16 guarantees you a solution that complies with European standards.

Input: 4-20 mA, digital, EASY DUO version
Outputs : 2 alarm relays + 1 fault relay (non-programmable), positive safety, dry contacts, RCT, 5A / 250Vac - 30Vdc, RS485 digital output Modbus RTU protocol
Power supply : 100-240Vca 50-60Hz (35W)
Indicators : integrated audio and visual alarms
Certifications : CE

MX 32

Single- or dual-channel controller with display

- Up to 2 analog or 8 digital detectors
- 5 programmable alarm thresholds per channel
- OR, AND, NAND, VOTING logic for alarm
- Data logging

The MX 32 is a digital and analog controller designed for measuring gases in the atmosphere and more generally for processing any 4-20 mA analog or compatible on/off digital signal. Up to 8 detectors can be distributed on its 2 lines for increased cost savings. The MX 32 accepts different modules (analog inputs, relay outputs, logic inputs, analog outputs) that can be installed at a distance of up to several hundred meters for increased system capacity and flexibility.

Inputs: 4-20 mA, digital, Wheatstone Bridge
Outputs: 5 built-in relays and up to 16 external relays, 4-20 mA, RS485 Modbus RTU
Power supply: 22 to 28 Vcc or 100 to 240 Vca
Indicators: Built-in audible and visual alarms, optional additional alarm kit
Certifications: CE • ATEX metrology EAC • CSA • SIL1

MX 43

Controller with 4 to 8 detection channels

- Up to 32 analog or digital detectors
- 5 programmable alarm thresholds per channel
- OR, AND, NAND, VOTING logic for alarm
- USB data logging

The MX 43 is a digital and analog controller designed for measuring gases in the atmosphere and more generally for processing any 4-20 mA analog or compatible on/off digital signal. Up to 32 detectors can be distributed on its 8 lines for increased cost savings. The MX 43 is SIL1-certified and accepts different modules (analog inputs, relay outputs, compatible logic input, analog outputs) that can be installed at a distance of up to several hundred meters for increased system capacity and flexibility. It is available in wall-mounted version and 19"-rack-mounted version.

Inputs: 4-20 mA, digital, Wheatstone Bridge
Outputs: 6 built-in relays and up to 24 external relays, 4-20 mA, RS485 Modbus RTU
Power supply: 22 to 28 Vcc and 100 to 240 Vca, optional embedded backup battery
Indicators: Built-in audible and visual alarms, optional additional alarm kit
Certifications: CE • ATEX metrology • EAC • MED • SIL1 • CSA

MX 256

Control unit for up to 256 detectors

- Digital control unit
- 8 lines of 32 modules
- 256 addresses
- Very highly flexible
- Very economical with RS485 bus cabling
- Perfect fit for larger public and industrial installations including laboratories

The MX 256 is a digital control unit intended for the detection and measurement of gases present in the atmosphere and more generally for the processing of any digital signal from digital sensors OLCT 10N types.

Gases detected: Methane, Hydrogen, Butane, Propane, CO, H_2S, O_2, NH_3, NO, NO_2
Technology: Catalytic or Electrochemical
Power supply: 85-260 Vac
Outputs: Relays, RS485 Modbus RTU
Certifications: CE

MX 52

Controller with 2 to 16 detection channels

- 3 programmable alarm thresholds per channel
- Standard Rack 19'' 3U format
- SIL2-certified

The MX 52 controller allows the connection of up to 16 analog or Wheatstone Bridge detectors. The device can be programmed from the front panel or using a computer. The MX 52 controller is as safe as it is reliable, and has SIL2 certification. It has one 4-20 mA output per channel, two alarm relays per channel, one general alarm relay and one fault relay.
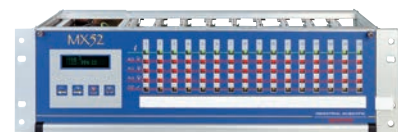
Inputs: 4-20 mA, Wheatstone Bridge
Outputs: 34 relays (1 common gas, 1 common fault, 32 gas), 4-20 mA, RS485
Power supply: 21 to 31 Vcc and 207 to 244 Vac or 103 to 122 Vac
Indicators: Built-in audible and visual alarms
Certifications: CE • ATEX metrology • EAC • SIL2

MX 62

## 8- to 64-channel controller with SIL2/SIL3 certification

- OR, AND, NAND, VOTING logic for alarm
- Up to 128 alarm relays
- Redundant system

The MX 62 is a digital and analog controller designed for measuring gases in the atmosphere and more generally for processing any 4-20 mA analog or compatible digital signal. The electronics are fully redundant from the analog inputs to the relay outputs, for the high level of functional safety required by SIL3-certified systems. The MX 62 accepts different modules (analog inputs, relay outputs, analog outputs) that can be installed at a distance of up to several hundred meters for increased system capacity and flexibility.

Inputs: 4-20 mA, compatible digital detectors (OLCT 80 and T..W-EX)
Outputs: 4-20 mA, Relays, RS485 Modbus RTU and/or TCP/IP (optional)
Certifications: CE • ATEX metrology • EAC • SIL2/SIL3
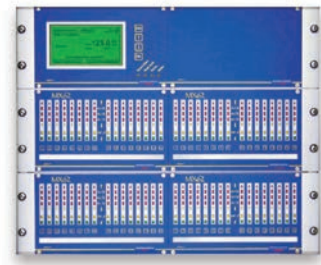
MX 62 TP

Fire and Gas system with touchscreen interface

- User-friendly IHM for easy configuration and operation interactions
- 10" or 15" high resolution colour touch screen
- 64 channels / 128 outputs
- Redundant system

The MX62TP system is based on the proven architecture of the MX62 control unit. The proven performance of the MX62 is made even easier to use thanks to ergonomic developments and new access and event recording features.

Inputs: 4-20 mA, digital sensors compatible (OLCT 80)
Outputs: 4-20 mA, Relay, RS485 Modbus RTU, TCP/IP (option)
Certifications: CE • ATEX metrology • SIL2/SIL3

Multisafe - MX

Fire, gas and extinguishing system

- Built-in detection and suppression modules
- Unlimited capacity (more than 15,000 points of detection)
- SIL2/SIL3-certified by TÜV-Rheinland

The Multisafe-MX control panel is a fully integrated, SIL2/SIL3-certified system for gas and fire detection, fire suppression and intruder alarms. It offers a wide choice of configurations and meets any "Fire and Gas" requirements of industrial sites. In redundant mode, all the modules can be hot-swapped with no loss in safety function.

Inputs: 4-20 mA, addressable or conventional fire detectors, break-glass, etc.
Outputs: Relays, Monitored transistor outputs
Certifications: CE • EN 54 • NFPA 72 • UL 864 • MED • SIL2/SIL3

Wireless
Solutions

CXT

SmartWireless gas detector

- Self-healing mesh network topology
- Internal battery power supply
- 2.4 GHz frequency
- Range of up to 2.4 km

CXT wireless gas detectors are equipped with rechargeable or disposable internal batteries and communicate via radio over distances of up to 2.4 km. This complete freedom to choose the type of electrical connection means that significant savings can be made on equipment installation costs and the system can be modified with great flexibility. Ideal for fixed or mobile solutions, the CXT offers up to 6 months of run time with a rechargeable battery and more when used with our solar-panel recharging solutions. Up to 32 CXT devices can communicate on the same secure mesh network.

Gases detected: Combustible, toxic, O_2
Technology: Infrared, Electrochemical
Power supply: Rechargeable battery or lithium battery
Input/output: 2.4 GHz DSSS radio transmission
Certifications: CE • ATEX • cCSAus • IECEx

OLCT 80W

Triple-sensor wireless detector

- Self-healing mesh or point-to-point network topology
- 2.4 GHz or 900 MHz FHSS
- Range of up to 3 km

The OLCT 80W is ideal for transmitting data wirelessly in an industrial setting. Using permitted frequency bands (2.4 GHz or 900 MHz depending on the country), the OLCT 80W can be integrated into a mesh network of 49 detectors or used by itself in a point-to-point system. FHSS (Frequency Hopping Spread Spectrum) technology ensures the integrity, security and reliability of the wireless network.

Gases detected: Combustible, toxic, O_2, CO_2, VOCs, Freons
Technology: Catalytic, Electrochemical, Infrared, Semi-Conductor
Power supply: 18 to 28 Vcc
Inputs: 2 4-20 mA inputs for connecting any analog detector
Outputs: 4-20 mA, RS485, relays (1 fault, 2 alarm)
Certifications: CE • ATEX • EAC • China Ex

BM 25 & BM25W

5-Gas site monitor

- Self-healing mesh network topology
- Up to 30 devices per network
- Range of 1 km
- Run time of up to 170 hours

The BM 25 is a multi-gas monitor than can detect up to 5 gases. It packs the benefits of a fixed detector into a transportable device. Extremely rugged and user friendly, the BM 25 is designed to protect intervention or maintenance teams in gas-risk areas during development or maintenance work. Used in an independent network, the BM 25W transfers alarm information from one device to the next via wireless radio communication. Adding a wireless MX 40 controller will give you local access to all the gas concentration measurements.

Gases detected: Combustible, toxic, O_2, CO_2, isobutylene (VOCs)
Technology: Catalytic, Electrochemical, Infrared, Photoionization
Run time: up to 170 hours, 135 hours in wireless mode, unlimited when connected to the intrinsically safe charger
Alarms: Ultra-bright flash with 360-degree visibility, 103 dB @ 1 meter, relays
Radio transmission: 2.4 GHz DSSS
Certifications: ATEX • CE • IECEx • CSA (in progress) • INMETRO • EAC

Model MX 40

Alarm station with 8 to 32 detection channels

- Up to 32 analog, digital or wireless detectors
- 2.4 GHz DSSS radio communication
- SD card data logging

The MX 40 is a digital and analog device designed for measuring gases in the atmosphere. Up to 32 detection points can be connected: 4-20 mA or Modbus wired detectors, wireless CXT detectors or wireless BM 25W monitors. The MX 40 accepts different modules (analog inputs, relay outputs, logic inputs, analog outputs) that can be installed at a distance of up to several hundred meters for increased system capacity and flexibility. It is available in different formats (NEMA 4X, NEMA7 fiberglass or stainless steel) and accepts an SD card as standard for saving measurements and events.

Inputs: 4-20 mA, RS485, Modbus RTU, wireless option
Outputs: Up to 32 relays, 4-20 mA, RS485 Modbus RTU
Power supply: 11.5-30 Vcc and 115-230 Vca, optional embedded backup battery
Formats: Stainless steel or fiberglass wall cabinet, Cl I Div 1 explosion-proof version, rack version
Certifications: CE • CSA

Site Sentinel CXT

SmartWireless mobile system

- Compatible with CX/CXT gas detectors and SmartWireless alarm systems
- Up to 32 wireless detectors
- Connection of up to 4 analog detectors
- Range of up to 2.4 km

The Site Sentinel CXT is an easily deployable wireless mobile system designed to monitor sites over short- or medium-length periods. In "receiver" mode, the Site Sentinel can receive signals from up to 32 wireless detectors and issue a local alert in the event of a gas alarm. In "transmitter" mode, the Site Sentinel can send the measurements from 4 detectors wired up to its analog inputs to a centralised system, and issue a local alert or remotely control the SmartWireless alarm stations. The system can be easily configured from the front panel, without opening the housing. The LCD screen displays the measurements from each detector on the network in real time. The many solar panel power supply options make the Site Sentinel fully independent. The set has Class I, Div 2 certification.

Inputs: 4 4-20 mA inputs, 32 wireless inputs
Outputs: 2.4 GHz DSSS radio transmission, relays, RS485 Modbus RTU
Power supply: 14-30 Vcc and/or internal battery
Alarms (optional): 1.75 Joules Xenon Flash, 80-90 dB siren @ 60 cm
Certifications: CE • cMETus

SW-AV Series Alarms

SmartWireless alarm system

- Run time of 6.5 months with no alarm
- Up to 9 hours of continuous operation with alarm
- Range of up to 2.4 km

SmartWireless® audible and visual alarm stations are easy to install and allow significant savings to be made on wiring costs. Being mobile, they provide a high degree of flexibility and can be repositioned as necessary. SW-AV stations are used with wireless devices or the Site Sentinel CXT and have Class I, Div 2 certification.

Available models: 1 light and 1 siren (Div 1), 2 lights and 1 siren (Div 2)
Alarms: 15 Joules and 108 dB @ 1 m (Div 2 versions); 5 Joules and 103 dB @ 1 m (Div 1 version)
Power supply: 6-30 Vcc or internal battery
Run time: 5 to 6.5 months without alarm, 4 to 9 hours with alarm, continuous operation with solar panel power supply
Radio transmission: 2.4 GHz DSSS
Certifications: cMETus

Customised
Systems and Solutions

Sampling Solutions

Samsys

Specially designed for monitoring carbon monoxide levels in car parks and tunnels using a pumped system, the SAMSYS controller ensures comprehensive management of ventilation and alarms. Using strategically distributed sampling nozzles, the system analyzes the air quality across its 9 sampling channels on a cyclical basis. The SAMSYS can detect one or several toxic gases at the same time.

This compact and affordably priced controller offers a high level of performance: 4 adjustable alarm thresholds per detection channel, Modbus serial output, fully configurable relays for zone management. The SAMSYS can be linked to a maximum of 9 analysis channels, allowing it to monitor up to 35,000 m² of unobstructed surface area.

The SAMSYS is easy to install and is available in a wall cabinet. The system is configured via user-friendly menus on the front panel, without the need for a PC.

Measurement sampling cabinet

When it is not possible to install detectors in the environment to be monitored owing to temperature, pressure, humidity, and other conditions, we can offer you personalised sampling solutions tailored to the application.

We operate and have developed systems in the following areas:
- Water treatment and detection of H_2S, CH_4, O_2, Ozone
- Automotive laboratories and test centers and detection of CO, NO_2, CH_4, H_2, NH_3, CnHn
- Oil rigs and detection of H_2S, CH_4
- Cold storage rooms and food-processing industry with detection of NH_3, Freons

Syntel

The Syntel system is a secure, fault-tolerant fieldbus. Unlike conventional Modbus networks, Syntel does not use a master. As a result, there is no common point of failure and each network subscriber acts independently! The network accepts ring and star topologies, facilitating installation and extension and reducing wiring costs. The network supports DG-7 gas detectors, DF-TV-7 flame detectors, relay modules, and redundant power supplies, but also any detector with a 4-20 mA output when connected to our MultiMECH interface. The Syntel system can interface with third-party systems via a standard or specifically developed HMI.
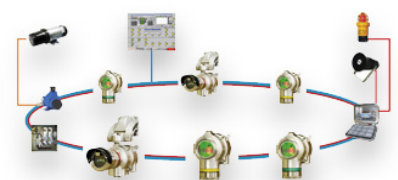
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